SP 0 3 ZOOZ SE

## SEQUENCE LISTING

St. George-Hyslop, Peter H Rommens, Johanna M Fraser, Paul E

GENETIC SEQUENCES AND PROTEINS RELATED TO ALZHEIMER'S DISEASE <120> 1034/1F808US7 <130> US 09/689,159 <140> 2000-10-12 <141> US 08/509,359 <150> <151> 1995-07-31 <160> 185 <170> PatentIn version 3.1 <210> 2791 <211> <212> DNA <213> Homo sapiens <220> <221> misc feature (1)..(2791) <222> where n may be either a or g or c or t/u, unknown or other <223>

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Pro Leu Ser Asn Gly Arg Pro Gln Gly Asn Ser Arg Gln Val Val Glu 50 55 60

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Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala 435 440 445

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Pro Ile Ser Asn Gly Arg Pro Gln Ser Asn Ser Arg Gln Val Val Glu 50 55 60

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His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val 85 90 95

Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
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Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg 115 120 125

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Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Xaa 180 185 190

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Gly Met Ile Ala Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala

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                                                                  360
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gctaggtttt tttcatagst cttcttccag attgaatgaa cgtctgttct aaaatttaac
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516

## tgaaaatgct ttcataatta tgtgtgaatg tgtgtc

<210> <211> <212>	1726		
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(213)	nomo sapzone		
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	(1)(1726)		
<223>	where n may be either a or g or c or t/u, unk	nown or	other

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<210> 10

<211> 1883

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1883)

<223> where n may be either a or g or c or t/u, unknown or other

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<sup>&</sup>lt;210> 11

<sup>&</sup>lt;223> where n may be either a or g or c or t/u, unknown or other

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ggtcnggaat ntgagancag	cctgggcaan	atggcgaaac	cctgtctcta	ctaaaaatag	180
ccanaawnwa gcctagcgtg	gtggcgcrca	cgcgtggttc	cacctactca	ggaggcntaa	240

<sup>&</sup>lt;211> 823

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;220>

<sup>&</sup>lt;221> misc\_feature <222> (1)..(823)

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tttttaaggg ttgtgggacc tgttaattat attgaaatgc ttctyttcta ggtcatccat	420
gcctggctta ttatatcatc tctattgttg ctgctctttt ttacattcat ttacttgggg	480
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agattatett gtacageett ttatggacea attageatte cateaatttt atatetagea	180
tatttgcggt tagaatccca tggatgtttc ttctttgact ataacaaaat ctggggagga	240
caaaggtgat ttcctgtgtc cacatctaac aaatcaagat ccccggctgg acttttggag	300
gttccttcca agtcttcctg accaccttgc actattggac tttggaagga ggtgcctata	360
gaaaacgatt ttgaacatac ttcatcgcag tggactgtgt cctcggtgca gaaactacca	420
gatttgaggg acgaggtcaa ggagatatga taggcccgga agttgctgtg ccccatcagc	480
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ttgaaaatca acccaataat tctgtattaa ctgaattctg aacttttcag gaggtactgt	660
gaggaagagc aggcaccacc agcagaatgg ggaatggaga ggtgggcagg ggttccagct	720
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cagcaaaata aaacaaaagc	aatatgaagg ctgagaatag	gtatcagatt atcataaaaa	180
gtatagatca aaaggaatct	ggtkctnagg ttggcgcagc	agcctctaga agcgacnagg	240
gagactttta gaactaccat	tctcctctat aagtggatcc	nangcccagg raaacttgat	300
attgagnaca atggccttac	tgaaataacc tgtgatccac	teggneteat catetecace	360
accaccataa atttgatgag	tncctataat attccancca	gnggaaatac ctggraggtt	420
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tttttncact ctcagacata	aatataaacm mantttctac	tgtggraaaa catctncagg	120
ggncntttan ccatgatctc	tagnacnang ggctngtggn	tngttttaat gtctctaagc	180
nactngacta gtttctcttn	cactgagnaa actgcnacaa	gtnnttnctn ctgnatctgn	240
actgnaatgc taagttncaa	gtnccaatga gctngtgant	tanyctttat ttnamcnaaa	300
gtnnttaatc anconcagtg	ttactttgna aagctnctcc	ctggacaggc ggcccnactt	360
ctaatgttat gaatgggctg	gagnanecte nachtgagtt	tnnwaaggnt caacanccaa	420

.

trgnaantgt amccgactct aaattccaac cnataat	457
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aagtcattcg ctntgancna cacataacag atctcgcaac tgnagtttag cgaggccagt	120
taatttkcca aagntcataa tnctaagnag ttctagnatg gagattcmaa gtccnactgt	180
ttagtcaaga gaccctactg ttaactagta cctttacact actaactggg taanccataa	240
ncaattaatg ataaagattg agattactkc cacattctca ctggttataa attaaaacnt	300
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gagggagaag tagaggccag aaacccacct gggttcctgt ttcccaatgn taagtccctg	300
ccatgtycct getetteetg tggttnggat etteaaaggt tgeteaaatt nggggeagtg	360
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ac 422

<211> 3 <212> D	.9 895 NA Iomo	sapiens					
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cgtcaccc	gt	ggtcaccatg	gttaggcacg	gcgactacca	tcgaaagtta	atagggcaga	180
tctcgaga	at	tctcgagatc	tccntcmaat	tattacttca	nttkcggtag	tgatcagnac	240
naggcagt	tc	tattgatttc	tctcctttca	ttctgagttt	ctccataaat	taattggacc	300
taatcatg	jtt :	tknaatcctg	tcttttaggg	ggnanttgna	ctntcaagtg	tttaaaggga	360
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	20 cct	gggtnaaaag	gacctnanac	ataatatagt	ggacttncaa	taaacactta	60
ccaaatgg	gan .	aaatgaaccc	ctggtcaccc	cgatctcact	agtnectnec	ctgaaacccg	120
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ggrggcgg	ggc	cagggacaga	aaarggaggt	ggcaagatcc	ttgaacaaaa	ggagctataa	420
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atcaaatnga aaggnatntn ggtngancag ttagttngyn ccnttngnng agaccactgg	180
gntgtngasa ccagattcmk gggtncnaat cttanggtaa tctnagagcc aacacatggg	240
tcatnttats ccccaaactt agccacatct bgtggggyta tggngtcacc ccaagagcag	300
gaggagcatg gntggatgga aatccatctc caccactgga accccaawtt ctgaatgnat	360
cacctgttag agtttcttgt ycataaaata gcagggaatt taggaattta gtttttttt	420
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ggactcmaga gttncagrna agtaaaaagr aaagagtaaa atcattttct aantytywyy	
ttccagaaat aacgatgttg agcattaagt ggacttcatt tcatactctt tcmmagntta	240
tgtaggcata wawatgtgtg tgtatataca tatatatggg tacatcctta gagaagttgg	300

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gtgaaaggaa agcaacttgt gccttacagg gtcaagctag gtcaaggaaa ttcccaggag	180
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caagetteee tteeactget teetettgat tgaetteeae ageaaggte	289
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720

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agatatto	gct ggtgttgctg	atgttacaat cagrcagtt	c tatagactga tctatcctcg	120
agececaç	gat ctgttcctta	cagacttcma attkgacac	c ccagtggaca aactaccaca	180
gctataaa	att gaggcagyta	acgtcmaatt cttgannac	m aaacttkncc tgttgtacat	240
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gaagagaa	aaa atgggaaaat	tcaacaattt gaaagacta	t gatecetetg geteatgate	120
tactgaco	cag aatgaagtcc	tgaaggattt ccttctgtt	a tgttatctac ccagctaatc	180
tcaaacaa	aga ggagctggaa	agaacaaagc cccatgaag	c tacccctaga cccagaaagc	240
caagaaca	agg gccaagaaaa	tgaacagcag acaagcctg	a aatagaagtg gnacagacat	300
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ccg				363

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<210> 29

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accctccatg t	kgmaggcga	cgtggccctg	gatcactcaa	ctgantgtca	tnkgantggt	180
gcccccagag t	gaggacaat	ggtgnagccc	tcctaaggcc	ctncctgagt	gtccctcctt	240
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gt						362
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atccagcmaa a	attccaagag	acacaacawt	aagaaactng	gaaggaagag	aaaaggcmmn	360
nnaggnaaaa g	gaaagacaag	gaaattnwnn	nagnacggag	agaaagagag	agggagcgtn	420
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nagageetne tnetaaatee acatggneet yeeaaggnte teateeteta ggaeetaeea 1	80
ctnctcagtc tacttacttg tctyctgana tgctttctng aggggnagaa aacaaaggaa 2	240
gagtaataac aagcagnaga aactgcagag aatgnaaaat aagtccatag gagaatgttg	300
naaatagaat catccncctt tacatattgt cactccagga aaactgccaa gaaccactca	360
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<pre>&lt;210&gt; 38 &lt;211&gt; 766 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;220&gt; &lt;221&gt; misc_feature &lt;222&gt; (1)(766) &lt;223&gt; where n may be either a or g or c or t/u, unknown or other</pre>	
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gctcctcatt tntcacttgt acaagagcag ggctggtcag ctttacacag gtgtcagatg	540
aaccgtcaca anccagantt ncatgttggc ctcaggaggg cttcnaggtc caacatctcg	600
acgtaaggag cgttcccagt tctttcatgc tcagataaca gtnctaactn cagctgtttc	660
atcccnaatc cctanttgag gtcttaacat ctattccatt ttkccnacma gggttatnct	720

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	tyangtcagt tctntctccc		180
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gananacarc aatgctggca			327
gananacare aatgetggea	cachycy		32,
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                                                                     120
tgaaactctc agctgggaaa gtaanaagga ataggatgta agtatgagct cctgttttt
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attatnttta tggatgcccc ctcagaaaaa tatgnaangg ggtaactgac tnggaaatgg
                                                                     240
                                                                     276
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                                                                     180
gatggaagaa tgagaaatcc tatatgacaa atagaaaagt ycatyctyca taattgagaa
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atgtttt	taa a	agaacatta	ttattcttta	ataactgtct	ttttatgcat	ttggcatgcc	180
aactttt	ttc a	attaacatct	tgggtatttt	ataaaaagag	ggaaagctca	atgtttaaca	240
ggtagct	ttt d	cttaggagct	aaattaaata	tttaacaaat	ctccttccct	tenecettee	300
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taaatgg	atc a	atttaattta	atcttcataa	ctgacatagg	agttgagtaa	cttgtgtggt	120
caaatag	cta (	gtaagtgatg	agtaggctgg	gcgcagtggc	tcaagcctgt	aatcccagca	180
ctctggg	agg (	ctgaggcagg	cagatcactt	gaggtcagga	gtttgagacc	agcctggnca	240
acatggn	aaa a	acctcgtctc	tactaaaaat	acaaaaatta	gctgggcgtg	gtgggngcgc	300
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gagaatgccc ccncacagca tagagaagcc cccgcacagn atagagaatg ctcttcacct 180	
ctgggttttt aaccagccaa actaaaatca cagagggcaa cacatcattt aagatagaaa 240	
tttctgtatc ttttaatttc tttcaaagta gttttactta tttncagatt ctatttcttt 300	
actagaatta agggataaaa taacaatgtg tgcataatga accctatgaa acaaacaaaa 360	
gctaggtttt ntncataggt ctncttccnn attgaatgaa cgtctntcct caaatttanc 420	
ccccaggga 430	
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acagnaagga gctgtctatc ttctattctc ccacagaagg aggtgactaa gtcanctgcc 240	
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(400) 47					
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gangnagaca ctggctccat	ctagngggtg	ctttnttttg	aaataattat	aatnccncat	360
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tcncatctgc agagtaattg					500
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tctgaaagnc aaacttttag	ccttggggga	gagcatctaa	gacagnaggt	gaagggnagg	180
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## <223> where n may be either a or g or c or t/u, unknown or other

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gaaggtgaaa	gaaagcacac	ctttatttaa	gcataaactt	tgggtttcan	gatactgtct	180
ggaaaaatga	tttatctccc	actttgaaat	tccaaaatac	gtacatatat	ttttttttc	240
ttttctttt	tagtttnagg	gtcttgctgt	gttgcccagg	ctggagtgca	gtagtgtgat	300
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<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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ttgggttgat tttcaacgtg tagtttaaga tgaagagttc cgnttggttt aaaccacttc	180
acctaacctc ttggtaacgg tagtcctgag agttcgcagt gtcantgaaa atcgtcctgt	240
gaccacgcgt caagctgctg atgggggaca gaaacttccg ggnctatcat atctccttga	300
nctcggccct caaatctggt agtttctgca ccgagggaca cagtccactg cgatgaagta	360
tgttcaaaat cgntttcttt agggaactcc ttccaaagtc caatagtgna aggtggtcaa	420
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<211> 105

<212> DNA

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<220>

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tttttttctt ttctttttta o	gtttnagggt	cttgctgtgt	tgcccaggct	ggagtgcagt	300
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attttggntt ttaaaagtga a	attgagggca	gatgcaagtg	gntcacacct	attaatccca	420
aataccttgg agagggcaag	gtaggaggat	tggttggagc	ccaggagtcc	aaagaccagg	480
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tcccacttca gcctctcaag					180
ttgtttattn gngggagaga	gaacgntctt	gctatattgc	ctaggctggt	cnttgaactc	240

ttgggntnca agcaatccto	c ctaccttggc ctctncaagg tanttgggat tnataggtgt	300
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tataaggtaa tgtattagaa	a ttattcttnn naaaaataaa accgatttgg gaaagngtga	420
gantcacatt ctgtaaccac	c cagtggtgaa atgggtcccc gaacaaggta gaacatactc	480
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tgtggtcaaa tagctagta	a gtgatgagta ggctgggcgc agtggntcaa gcctgtaatc	180
ccagcactct gggaggctg	a ggcaggcaga tcacttgagg tcaggagttt gagaccagcc	240
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cgggagggag aggttgntn	g tgnagctgag atcacgccac tngcactcca ggctgggnaa	420
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gatgagatet cactgtgttt eccaggnttg teeggaacte etggaeteaa gegateetee	180
caccttgggc tgccaaagtg ttgggattac aggcatgagc caccatgcct ggccatacac	240
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cagcctccca agtnggtggg actacaggna tctgcaccac gnccggttat ttnttgggtt	420
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atcaccctgc tcggctccca	500
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	60 120
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aatgatacag agcttcctat	taagaaaaag	ttcagcttgg	ggaaaaaaaa	agtgaattgt	360	
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cadorongay ggaaaaagr	9					
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geacegeage coacageace geracingger consistency	240
gaeceeaaa gaegeacaae aaceeccaco aaaaceecac eerganina gegneggees	
John State Control of the Control of	300
ctattattta tttaatnott coctntaaat taatttacto tttttttgtt tttgtttttg	360
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gtcttggcct tatttnaccc agcccctatt caaaatagag tngttcttgg nccaaacgcc	300
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1225, where it may be exerted a of g of e of e, a, anknown of other	

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JJ		

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aataatagca cagttgatat aggttatggt aaaattataa aggtgggata ttaatatcta
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g		541
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<220>

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<213> Homo sapiens

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<220>

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gagaato	gccc ccncacagca tagagaagcc cccgcacagc atagagaatg ctcttcac	ect 180
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actagaa	atta agggataaaa taacaatgtg tgcataatga accctatgaa acmaacmm	maa 360
gctaggt	tttt tttcatagst cttcttccag attgaatgaa cgtctgttct aaaattta	aac 420
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tgaaaat	tgct ttcataatta tgtgtgaatg tgtgtc	516
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240	ttctatacag	gaaacagtat	tgttttctgt	caagaggctt	gaaagaacct	acacatgaaa
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tgtatgatga	aaagaatgtg	ttatgaatcg	gtgctgtcag	ccctgctgtc	agaccttctt	2700
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<211> 467

<212> PRT

<213> Homo sapiens

<400> 134

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Arg Glu Arg Gln Glu His Asn Asp Arg Arg Ser Leu Gly His Pro Glu 35 40 45

Pro Leu Ser Asn Gly Arg Pro Gln Gly Asn Ser Arg Gln Val Val Glu
50 55 60

Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys 65 70 75 80

His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val 85 90 95

Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln 100 105 110

Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg 115 120 125

Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val 130 135 140

Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys 145 150 155 160

Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Leu Phe Phe 165 170 175

Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala 180 185 190

Val Asp Tyr Ile Thr Val Ala Leu Leu Ile Trp Asn Phe Gly Val Val 195 200 205

Gly Met Ile Ser Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala 210 215 220

Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr 225 230 235 240

Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr 245 250 255

Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val 260 265 270

Glu Thr Ala Gln Glu Arg Asn Glu Thr Leu Phe Pro Ala Leu Ile Tyr Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu Ser Thr Glu Arg Glu Ser Gln Asp Thr Val Ala Glu Asn Asp Asp Gly Gly Phe Ser Glu Glu Trp Glu Ala Gln Arg Asp Ser His Leu Gly Pro His Arg Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Ser Ile Leu Ala Gly Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile 41.5 Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala Thr Asp Tyr Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln 

Phe Tyr Ile 

<210> 135

<211> 1964

<212> DNA

<213> Mus musculus

<220>
<221> misc\_feature
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<223> where n may be either a or g or c or t/u, unknown or other

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<211> 467

<212> PRT

<213> Mus musculus

<220>

<221> MISC FEATURE

<222> (1)..(467)

<223> where X is unknown or other

<400> 136

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Gln Glu Arg Gln Gln Gln His Asp Arg Gln Arg Leu Asp Asn Pro Glu 35 40 45

Pro Ile Ser Asn Gly Arg Pro Gln Ser Asn Ser Arg Gln Val Val Glu 50 55 60

Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys 65 70 75 80

His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val 85 90 95

Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
100 105 110

Leu	Ile	Tyr 115	Thr	Pro	Phe	Thr	Glu 120	Asp	Thr	Glu	Thr	Val 125	Gly	Gln	Arg
Ala	Leu 130	His	Ser	Ile	Leu	Asn 135	Ala	Ala	Ile	Met	Ile 140	Ser	Val	Ile	Val
Ile 145	Met	Thr	Ile	Leu	Leu 150	Val	Val	Leu	Tyr	Lys 155	Tyr	Arg	Cys	Tyr	Lys 160
Val	Ile	His	Ala	Trp 165	Leu	Ile	Ile	Ser	Ser 170	Leu	Leu	Leu	Leu	Phe 175	Phe
Phe	Ser	Phe	Ile 180	Tyr	Leu	Gly	Glu	Val 185	Phe	Lys	Thr	Tyr	Asn 190	Val	Xaa
Val	Asp	Tyr 195	Val	Thr	Val	Ala	Leu 200	Leu	Ile	Trp	Asn	Trp 205	Gly	Val	Val
Gly	Met 210	Ile	Ala	Ile	His	Trp 215	Lys	Gly	Pro	Leu	Arg 220	Leu	Gln	Gln	Ala
Tyr 225	Leu	Île	Met	Ile	Ser 230	Ala	Leu	Met	Ala	Leu 235	Val	Phe	Ile	Lys	Tyr 240
Leu	Pro	Glu	Trp	Thr 245	Ala	Trp	Leu	Ile	Leu 250	Ala	Val	Ile	Ser	Val 255	Tyr
Asp	Leu	Val	Ala 260	Val	Leu	Cys	Pro	Lys 265	Gly	Pro	Leu	Arg	Met 270	Leu	Val
Glu	Thr	Ala 275	Gln	Glu	Arg	Asn	Glu 280	Thr	Leu	Phe	Pro	Ala 285	Leu	Ile	Tyr
Ser	Ser 290	Thr	Met	Val	Trp	Leu 295	Val	Asn	Met	Ala	Glu 300	Gly	Asp	Pro	Glu
Ala 305	Gln	Arg	Arg	Val	Pro 310	Lys	Asn	Pro	Lys	Tyr 315	Asn	Thr	Gln	Arg	Ala 320
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Cys Ser Gly Val Pro Gly Arg Pro Pro Gly Leu Glu Glu Glu Leu Thr 65 70 75 80	
Leu Lys Tyr Gly Ala Lys His Val Ile Met Leu Phe Val Pro Val Thr 85 90 95	
Leu Cys Met Ile Val Val Ala Thr Ile Lys Ser Val Arg Phe Tyr 100 105 110	
Thr Glu Lys Asn Gly Gln Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr 115 120 125	

Pro Ser Val Gly Gln Arg Leu Leu Asn Ser Val Leu Asn Thr Leu Ile 130  $$135\$ 

Met Ile Ser Val Ile Val Val Met Thr Ile Phe Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys Phe Ile His Gly Trp Leu Ile Met Ser Ser Leu Met Leu Leu Phe Leu Phe Thr Tyr Ile Tyr Leu Gly Glu Val Leu Lys Thr Tyr Asn Val Ala Met Asp Tyr Pro Thr Leu Leu Leu Thr Val Trp Asn Phe Gly Ala Val Gly Met Val Cys Ile His Trp Lys Gly Pro Leu Val Leu Gln Gln Ala Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr Leu Pro Glu Trp Ser Ala Trp Val Ile Leu Gly Ala Ile Ser Val Tyr Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val Glu Thr Ala Gln Glu Arg Asn Glu Pro Ile Phe Pro Ala Leu Ile Tyr Ser Ser Ala Met Val Trp Thr Val Gly Met Ala Lys Leu Asp Pro Ser Ser Gln Gly Ala Leu Gln Leu Pro Tyr Asp Pro Glu Met Glu Glu Asp Ser Tyr Asp Ser Phe Gly Glu Pro Ser Tyr Pro Glu Val Phe Glu Pro Pro Leu Thr Gly Tyr Pro Gly Glu Glu Leu Glu Glu Glu Glu Arg Gly Val Lys Leu Gly Leu Gly Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ala Ala Thr Gly Ser Gly Asp 370 375 380

Trp 385	Asn	Thr	Thr	Leu	Ala 390	Cys	Phe	Val	Ala	Ile 395	Leu	Ile	Gly	Leu	Cys 400	
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Pro	Ile	Ser	Ile 420	Thr	Phe	Gly	Leu	Ile 425	Phe	Tyr	Phe	Ser	Thr 430	Asp	Asn	
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attacc	gtgc ttggcttggc ttggtcagga ttcaccacca gagtcatgtg ggagggggtg	240

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<213> Homo sapiens

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attacacagt	ccctttaagg	cagttctgtt	ttaaccccag	gtgggttaaa	tattccagct	660
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<211> 1726

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1990)

<223> where n may be either a or g or c or t/u, unknown or other

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ncagggtcgc caganctgag gaaggggagg gaagcttatc gagkamsgwc racmkcgagt	1980
tggcagggat	1990
<210> 155 <211> 736 <212> DNA <213> Homo sapiens	
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agattatctt gtacagcctt ttatggacca attagcattc catcaatttt atatctagca	180
tatttgcggt tagaatccca tggatgtttc ttctttgact ataacaaaat ctggggagga	240
caaaggtgat ttcctgtgtc cacatctaac aaatcaagat ccccggctgg acttttggag	300
gttccttcca agtcttcctg accaccttgc actattggac tttggaagga ggtgcctata	300
gittetitea agretitetty accatetige actatiggae titiggaagga ggtgeetata	360
gaaaacgatt ttgaacatac ttcatcgcag tggactgtgt cctcggtgca gaaactacca	
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gaaaacgatt ttgaacatac ttcatcgcag tggactgtgt cctcggtgca gaaactacca gatttgaggg acgaggtcaa ggagatatga taggcccgga agttgctgtg ccccatcagc agcttgacgc gtggtcacag gacgattttc actgacactg cgaactctca ggactaccgt	360 420 480 540
gaaaacgatt ttgaacatac ttcatcgcag tggactgtgt cctcggtgca gaaactacca gatttgaggg acgaggtcaa ggagatatga taggcccgga agttgctgtg ccccatcagc agcttgacgc gtggtcacag gacgattttc actgacactg cgaactctca ggactaccgt taccaagagg ttaggtgaag tggtttaaac caaacggaac tcttcatctt aaactacacg	360 420 480 540 600

<213> Homo sapiens <220> <221> misc\_feature <222> (1)...(1117)where n may be either a or g or c or t/u, unknown or other <223> <400> 156 ggatccgccc gccttggcct cccaaagtgc tgggattaca ggcatgagcc accgctcctg 60 gctgagtctg cgatttcttg ccagctctac ccagttgtgt catcttaagc aagtcactga 120 180 acttctctgg attcccttct cctnnwgtaa aataagnatg ttatctgncc nncctgcctt 240 gggcattgtg ataaggataa gatgacatta tagaatntng caaaattaaa agcgctagac 300 aaatgatttt atgaaaatat aaagattagn ttgagtttgg gccagcatag aaaaaggaat 360 gttgagaaca ttccnttaag gattactcaa gcyccccttt tgstgknwaa tcaganngtc atnnamntat cntntgtggg ytgaaaatgt ttggttgtct caggcggttc ctacttattg 420 ctaaagagtc ctaccttgag cttatagtaa atttgtcagt tagttgaaag tcgtgacaaa 480 ttaatacatt cctggtttac aaattggtct tataagtatt tgattggtnt aaatgnattt 540 600 actaggattt aactaacaat ggatgacctg gtgaaatcct atttcagacc taatctggga 660 gcctgcaagt gacaacagcc tttgcggtcc ttagacagct tggcctggag gagaacacat gaaagammgg tttgwntctg nttawtgtaa tctatgraag tgtttttwat macagtataa 720 780 ttgtmtgmac aaagttctgt ttttctttcc ctttncagaa cctcaagagg ctttgttttc 840 tgtgaaacag tatttctata cagntgctcc aatgacagag tnacctgcac cgttgtccta 900 cttccagaat gcacagatgt ctgaggacaa ccacctgagc aatactgtac gtagccaggt 960 acagegteag tytetnaaae tgeetyygne agaetggatt caettateat eteeceteae ctctgagaaa tgctgagggg gstaggnagg gctttctcta cttnaccaca tttnataatt 1020 1080 atttttgggt gaccttcagc tgatcgctgg gagggacaca gggcttnttt aacacatagg 1117 gtgttggata cagnecetee ctaatteaca ttteane <210> 157

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<211> 540
<212> DNA
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<220>

<212>

DNA

<221> misc\_feature <222> (1)..(540)

<sup>&</sup>lt;213> Homo sapiens

<223> where n may be either a or g or c or t/u, unknown or other

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cactaagcaa	atagcagtca	aacccaaatg	aaatttntac	agatgttctg	tgtcatttta	120
tnttgtttat	gttgtctccc	ccacccccac	cagttcacct	gccatttatt	tcatattcat	180
tcaacgtctn	nntgtgtaaa	aagagacaaa	aaacattaaa	ctttttcct	tcgttaattc	240
ctccctacca	cccatttaca	agtttagccc	atacatttta	ttagatgtct	tttatgtttt	300
tcttttncta	gatttagtgg	ctgtttngtg	tccgaaaggt	ccacttcgta	tgctggttga	360
aacagctcag	gagagaaatg	aaacgctttt	tccagctctc	atttactcct	gtaagtattt	420
ggagaatgat	attgaattag	taatcagngt	agaatttatc	gggaacttga	aganatgtna	480
ctatggcaat	ttcanggnac	ttgtctcatc	ttaaatgana	gnatccctgg	actcctgnag	540

<210> 158

<211> 509

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(509)

<223> where n may be either a or g or c or t/u, unknown or other

## <400> 158

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caacaatggt	gtggttggtg	aatatggcag	aaggagaccc	ggaagctcaa	aggagagtat	120
ccaaaaattc	caagtataat	gcagaaagta	ggtaactyyy	nttagatamn	atcttgattt	180
tncagggtca	ctgttataag	ctaacagtat	agnaatgttt	ttatcgtctt	tctnkggnca	240
tagactcctn	kgagaatctc	ttgagaacta	tgataatgcc	cagtaaatac	ncagataagt	300
atttaaggag	tncagatact	caaancccaa	caatacngtc	aaagcatcct	aggttaagac	360
amcncccatt	aaatacagaa	taccagcatg	gaaaggttca	ggctgaggtt	atgattgggt	420
ttgggttttg	ggnnngtttt	ttataagtca	tgattttaaa	aagaaaaaat	aaactctctc	480
caaacatgta	aaagtaagaa	tctcctaaa				509

<210> 159

<211> 823

<212> DNA

<213> Homo sapiens <220> <221> misc\_feature <222> (1)..(823) where n may be either a or g or c or t/u, unknown or other <223> <400> 159 60 caggagtgga ctaggtaaat gnaagntgtt ttaaagagag atgnggncng ggacatagtg 120 qtacacanct qtaatqctca ncactkatgg ggagtactga aggnggnsgg atcacttgng 180 ggtcnggaat ntgagancag cctgggcaan atggcgaaac cctgtctcta ctaaaaatag ccanaawnwa gcctagcgtg gtggcgcrca cgcgtggttc cacctactca ggaggcntaa 240 gcacgagnan tnettgaace caggaggeag aggntgtggt garetgagat egtgeeactg 300 360 cactccagtc tgggcgacma agtgagaccc tgtctccnnn aagaaaaaaa aaatctgtac 420 tttttaaggg ttgtgggacc tgttaattat attgaaatgc ttctyttcta ggtcatccat 480 gcctggctta ttatatcatc tctattgttg ctgctctttt ttacattcat ttacttgggg taagttgtga aatttggggt ctgtctttca gaattaacta cctnngtgct gtgtagctat 540 catttaaagc catgtacttt gntgatgaat tactctgaag ttttaattgt ntccacatat 600 aggtcatact tggtatataa aagactagnc agtattacta attgagacat tcttctgtng 660 720 ctcctngctt ataataagta gaactgaaag naacttaaga ctacagttaa ttctaagcct 780 ttggggaagg attatatagc cttctagtag gaagtcttgt gcnatcagaa tgtttntaaa 823 gaaagggtnt caaggaatng tataaanacc aaaaataatt gat <210> 160 945 <211> <212> DNA <213> Homo sapiens <220> <221> misc\_feature <222> (1)..(945) where n may be either a or g or c or t/u, unknown or other <223> <400> 160 gttntccnaa ccaacttagg agnttggacc tgggraagac cnacntgatc tccgggaggn 60 aaagactnca gttgagccgt gattgcaccc actttactcc aagcctgggc aaccaaaatg 120 agacactggc tccaaacaca aaaacaaaaa caaaaaaaga gtaaattaat ttanagggaa 180 240 gnattaaata aataatagca cagttgatat aggttatggt aaaattataa aggtgggana

300 ttaatatcta atqtttggga gccatcacat tattctaaat aatgttttgg tggaaattat 360 tgtacatctt ttaaaatctg tgtaattttt tttcagggaa gtgtttaaaa cctataacgt tgctgtggac tacattactg ttncactcct gatctggaat tttggtgtgg tgggaatgat 420 ttccattcac tggaaaggtc cacttcgact ccagcaggca tatctcatta tgattagtgc 480 cctcatgncc ctgktgttta tcaagtacct ccctgaatgg actgngtggc tcatcttggc 540 tgtgatttca gtatatggta aaacccaaga ctgataattt gtttgtcaca ggaatgcccc 600 actggagtgt tttctttcct catctcttta tcttgattta gagaaaatgg taacgtgtac 660 atcccataac tcttcagtaa atcattaatt agctatagta actttttcat ttgaagattt 720 780 cggctgggca tggtagctca tgcctgtaat cttagcactt tgggaggctg aggcgggcag atcacctaag cccagagttc aagaccagcc tgggcaacat ggcaaaacct cgtatctaca 840 900 gaaaatacaa aaattagccg ggcatggtgg tgcacacctg tagttccagc tacttaggag 945 gctgaggtgg gaggatcgat tgatcccagg aggtcaagnc tgcag

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<211>
<212>
       PRT
<213>
       Homo sapiens
<400>
      161
Tyr Pro Thr Phe
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       162
<211>
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<212>
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Ser Thr Pro Glu
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       19
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<223>
      primer
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<400> 163

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	164 18 DNA Artificial Sequence	
<220> <223>	primer	
	164 gcac caccaaga	18
<210><211><211><212><213>	165 18 DNA Artificial Sequence	
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<400> aaactt	167 ggat tgggagat	18
<210> <211> <212> <213>	168 15 PRT Homo sapiens	
<400>	168	

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Asn Asp Asn Arg Glu Arg Gln Glu His Asn Asp Arg Arg Ser Leu
<210> 169
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<212> PRT
<213> Homo sapiens
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Lys Asp Gly Gln Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu
                                   10
<210> 170
<211> 15
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Glu Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu
               5
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<211> 15
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Ser His Leu Gly Pro His Arg Ser Thr Pro Glu Ser Arg Ala Ala
                                   10
<210> 172
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> oligonucleotide primer
<400> 172
                                                                     19
cagaggatgg agagaatac
<210> 173
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<223> oligonucleotide primer
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<400>	173	19
ggeteed	ccaa aactgtcat	
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	20	
	DNA	
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	oligonucleotide primer	
\2237	Oligonacicocide primer	
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gccctag	gtgt tcatcaagta	20
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	DNA Antificial Cognonge	
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aaagcgg	ggag ccaaagtc	18
.010		
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\213/	Altilitial Sequence	
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<400>	176	
tcacaga	aaga taccgagact	20
2010s	177	
<210> <211>	177 20	
<211>	DNA	
<213>	Artificial Sequence	•
1210/	Michigan boquenos	
<220>		
<223>	PCR primer	
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cccaaco	cata agaagaacag	20
<210>	178	
<210>	22	
<211>	DNA	

<213> Artificial Sequence

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<220>
<223> PCR primer
<400> 178
                                                                     22
tctgtacttt ttaagggttg tg
<210> 179
<211> 22
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<213> Artificial Sequence
<220>
<223> PCR primer
<220>
<221> misc feature
<222> (1)..(22)
<223> where n may be either a or g or c or t/u, unknown or other
<400> 179
                                                                     22
acttcagagt aattcatcan ca
<210> 180
<211> 19
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<220>
<223> PCR primer
<400> 180
                                                                     19
gactccagca ggcatatct
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<220>
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<222>
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<223> where n may be either a or g or c or t/u, unknown or other
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gatgagacaa gtnccntgaa
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<223> where n may be either a or g or c or t/u, unknown or other
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ttagtggctg tttngtgtcc
<210> 183
<211> 20
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<223> PCR primer
<400> 183
                                                                     20
cacccattta caagtttagc
<210> 184
<211> 241
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<213> Homo sapiens
<220>
<221> misc_feature
<222> (1)..(241)
<223> where n may be either a or g or c or t/u, unknown or other
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                                                                     60
ataagantgt gtcagagctc ttaatgtcaa aactttgatt acacagtccc tttaaggcag
                                                                    120
ttctgtttta accccaggtg ggttaaatat tccagctatc tgaggagctt ttngataatt
                                                                    180
ggacctcacc ttagtagttc tctaccctgg ccacacatta gaatcacttg ggagctttta
                                                                    240
                                                                    241
а
<210> 185
<211> 241
<212> DNA
<213> Homo sapiens
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<220> <221> misc_feature <222> (1)(241) <223> where n may be either a or g or c or t/u, unknown or other	r
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ggtcactctt nggtatgatt tcacaattca aaactatcac tgccctactc aaccccaca	a 120
tgaatgagag aagtcagtaa atgatataca aaattaggct tcagctgtgt ttnctttct	t 180
tnggggtttn ctacaatagg agtnccagat tctatgtgac tgactctgga gtcttaact	g 240
t	241